



STATE OF ALASKA
DEPARTMENT OF
COMMERCE
COMMUNITY AND
ECONOMIC DEVELOPMENT

Mike Dunleavy, Governor
Julie Sande, Commissioner
Keith Kurber II, Chairman

Regulatory Commission of Alaska

April 21, 2023

In reply refer to: Tariff Section
Files: TA415-121, TA537-8
LO#: L2300138

Arthur Miller
Chief Executive Officer
Chugach Electric Association, Inc.
P.O. Box 196300
Anchorage, AK 99519-6300

Dear Mr. Miller:

Chugach Electric Association, Inc. (Chugach) filed TA415-121 and TA537-8 on March 15, 2023, seeking to update its Generation and Transmission Line Loss Factor calculation based on 2022 operating results. On April 21, 2023, the Regulatory Commission of Alaska approved Tariff Sheet Nos. 122 and 123, filed March 15, 2023, by Chugach with TA415-121, and Tariff Sheet Nos. 103.4 and 103.5, filed March 15, 2023, by Chugach with TA537-8. The effective date of the tariff sheets is May 1, 2023.

Enclosed are validated copies of the approved tariff sheets.

BY DIRECTION OF THE COMMISSION

Sincerely,

REGULATORY COMMISSION OF ALASKA

Becki Alvey (Apr 21, 2023 09:36 AKDT)

Becki Alvey
Acting Advisory Section Manager

Enclosures

RCA NO.: 121 2nd Revision Sheet No. 122



Canceling

1st Revision

Sheet No. 122

RECEIVED

MAR 15 2023

STATE OF ALASKA
REGULATORY COMMISSION OF ALASKA

Chugach Electric Association, Inc.

CALCULATION OF CHUGACH G&T LOSSES
2022 Test Year

Description	Q1-22	Q2-22	Q3-22	Q4-22	Total
<u>Energy Entering System</u>					
Beluga Power Plant	4,697.5	708.7	1,197.4	727.9	7,331.4
IGT Power Plant	0.0	0.0	0.0	0.0	0.0
Fire Island Wind (IGT Bkr 532)	15,915.2	8,404.4	13,262.1	16,086.9	53,668.6
Southcentral Power Project	330,831.4	288,032.7	230,023.1	335,680.3	1,184,567.5
Plant 1	5,354.8	6,831.2	1,221.6	6,698.9	20,106.4
Plant 2	26,820.8	12,805.0	897.8	1,266.7	41,790.3
Plant 2A	236,707.3	210,928.8	206,345.8	210,389.9	864,371.8
Quartz Creek Substation	46,529.3	41,592.1	117,474.3	106,829.8	312,425.4
Teeland Substation	74,645.5	55,412.1	47,251.4	58,267.3	235,576.2
Plant 2 230 Yard	5,077.4	2,203.6	10,946.2	1,102.3	19,329.5
Eklutna Substation	1,518.4	616.0	0.0	3,010.9	5,145.3 D,N
International Substation	0.0	0.0	0.0	0.0	0.0 D,N
Cooper Lake Power Plant	5,976.2	7,441.2	7,888.3	14,030.8	35,336.5
Eklutna Hydro Electric Power Plant	38,325.8	34,438.4	56,671.7	39,930.2	169,366.2
Total Energy Entering System	792,399.7	669,414.2	693,179.6	794,021.7	2,949,015.3
<u>Energy Leaving System</u>					
Quartz Creek Substation	0.0	0.0	0.0	0.0	0.0
Daves Creek Substation	15,329.4	14,991.4	15,154.2	14,851.6	60,326.6
Eklutna Substation	39,355.5	34,623.3	56,125.7	42,413.3	172,517.8 D,N
Teeland Substation	181,250.8	135,624.1	115,606.4	162,177.2	594,658.5
Plant 2 230 Yard	7,045.4	4,796.7	20,122.4	13,368.4	45,332.8
International Substation	80.1	78.2	98.1	105.3	361.8 D,N
Power Plant Station Service Totals	19,395.7	18,385.6	17,998.5	20,481.3	76,261.0
South - Distribution Substation Deliveries	290,974.9	245,546.4	249,133.8	296,665.0	1,082,320.0
North - Distribution Substation Deliveries	230,549.5	208,759.9	207,889.5	232,231.3	879,430.3
Total Energy Leaving System	783,981.3	662,805.5	682,128.7	782,293.4	2,911,208.9
Gross Energy Losses	8,418.4	6,608.7	11,050.9	11,728.3	37,806.3
Less Transformer Losses	1,584.8	1,584.8	1,584.8	1,584.8	6,339.1
Net G&T Losses	6,833.6	5,023.9	9,466.2	10,143.6	31,467.2

Tariff Advice No. 415-121

Issued by:

Effective: May 1, 2023

Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: 1212nd RevisionSheet No. 123

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1st RevisionSheet No. 123**RECEIVED****MAR 15 2023**STATE OF ALASKA
REGULATORY COMMISSION OF ALASKA

Chugach Electric Association, Inc.

CALCULATION OF CHUGACH G&T LOSSES**2022 Test Year ¹**

Description	Q1-22	Q2-22	Q3-22	Q4-22	Total
Chugach Retail Distribution Losses					
Retail Receipts at Transmission Substation	521,524.4	454,306.3	457,023.3	528,896.3	1,961,750.3
Less: Chugach House Power	1,817.3	1,429.6	1,359.8	1,865.9	6,472.6
Net Receipts	519,707.1	452,876.7	455,663.5	527,030.4	1,955,277.7
Retail Sales at Delivery ²	505,991.2	440,840.7	442,748.6	513,044.1	1,902,624.6
Losses	13,716.0	12,036.0	12,915.0	13,986.2	52,653.1
Add: 1/2 House Power	908.6	714.8	679.9	933.0	3,236.3
Adj. Retail Dist. Losses	14,624.6	12,750.8	13,594.8	14,919.2	55,889.5
At Delivery	2.890%	2.892%	3.071%	2.908%	2.937%
At Transmission Substation	2.814%	2.816%	2.984%	2.831%	2.858%
Adjustment of G&T Losses for House Power					
G&T Deliveries	536,937.8	469,385.9	472,246.7	543,843.7	2,022,414.2
Net G&T Losses	6,833.6	5,023.9	9,466.2	10,143.6	31,467.2
Add: 1/2 House Power	908.6	714.8	679.9	933.0	3,236.3
Adjusted G&T Losses	7,742.2	5,738.7	10,146.0	11,076.5	34,703.6
At Delivery	1.442%	1.223%	2.148%	2.037%	1.716% R
At Generation	1.421%	1.208%	2.103%	1.996%	1.687% R

¹ G&T loss factor effective for the allocation of actual costs beginning January 1, 2023.

Tariff Advice No. 415-121

Issued by:

Effective: May 1, 2023

Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: 820th RevisionSheet No. 103.4

Canceling

19th RevisionSheet No. 103.4**RECEIVED****MAR 15 2023**STATE OF ALASKA
REGULATORY COMMISSION OF ALASKA

Chugach Electric Association, Inc.

CALCULATION OF CHUGACH G&T LOSSES
2022 Test Year

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<u>Energy Entering System</u>						
Beluga Power Plant	4,697.5	708.7	1,197.4	727.9	7,331.4	
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Fire Island Wind (IGT Bkr 532)	15,915.2	8,404.4	13,262.1	16,086.9	53,668.6	
Southcentral Power Project	330,831.4	288,032.7	230,023.1	335,680.3	1,184,567.5	
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Plant 2A	236,707.3	210,928.8	206,345.8	210,389.9	864,371.8	
Quartz Creek Substation	46,529.3	41,592.1	117,474.3	106,829.8	312,425.4	
Teeland Substation	74,645.5	55,412.1	47,251.4	58,267.3	235,576.2	
Plant 2 230 Yard	5,077.4	2,203.6	10,946.2	1,102.3	19,329.5	
Eklutna Substation	1,518.4	616.0	0.0	3,010.9	5,145.3	D,N
International Substation	0.0	0.0	0.0	0.0	0.0	D,N
Cooper Lake Power Plant	5,976.2	7,441.2	7,888.3	14,030.8	35,336.5	
Eklutna Hydro Electric Power Plant	38,325.8	34,438.4	56,671.7	39,930.2	169,366.2	
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<u>Energy Leaving System</u>						
Quartz Creek Substation	0.0	0.0	0.0	0.0	0.0	
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Teeland Substation	181,250.8	135,624.1	115,606.4	162,177.2	594,658.5	
Plant 2 230 Yard	7,045.4	4,796.7	20,122.4	13,368.4	45,332.8	
International Substation	80.1	78.2	98.1	105.3	361.8	D,N
Power Plant Station Service Totals	19,395.7	18,385.6	17,998.5	20,481.3	76,261.0	
South - Distribution Substation Deliveries	290,974.9	245,546.4	249,133.8	296,665.0	1,082,320.0	
North - Distribution Substation Deliveries	230,549.5	208,759.9	207,889.5	232,231.3	879,430.3	
Total Energy Leaving System	783,981.3	662,805.5	682,128.7	782,293.4	2,911,208.9	
Gross Energy Losses	8,418.4	6,608.7	11,050.9	11,728.3	37,806.3	
Less Transformer Losses	1,584.8	1,584.8	1,584.8	1,584.8	6,339.1	
Net G&T Losses	6,833.6	5,023.9	9,466.2	10,143.6	31,467.2	

Tariff Advice No. 537-8

Issued by:

Effective: May 1, 2023

Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: 820th RevisionSheet No. 103.5

Canceling

19th RevisionSheet No. 103.5**RECEIVED****MAR 15 2023**STATE OF ALASKA
REGULATORY COMMISSION OF ALASKA

Chugach Electric Association, Inc.

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